

Title (en)

MOTION VECTOR REFINEMENT SEARCH WITH INTEGER PIXEL RESOLUTION

Title (de)

BEWEGUNGSVEKTORVERFEINERUNGSSUCHE MIT GANZZAHLIGER PIXELAUFLÖSUNG

Title (fr)

RECHERCHE D'AFFINEMENT DE VECTEUR DE MOUVEMENT À RÉOLUTION DE PIXELS ENTIERS

Publication

EP 3799693 A1 20210407 (EN)

Application

EP 19825737 A 20190628

Priority

- US 201862691582 P 20180628
- US 201862691594 P 20180628
- CN 2019093499 W 20190628

Abstract (en)

[origin: WO2020001578A1] A method relates to motion vector determination employing template matching or bilateral matching. At first, candidate motion vectors are obtained and are mapped to respective representatives (representative motion vectors). In particular, if the obtained candidate motion vectors point to fractional positions and thus, interpolation from the integer sample positions is required, the initial motion vector is rounded to a closest integer sample position. The rounded position is then used to define the search space for the template or bilateral matching to determine the best matching motion vector for the block (in other words, a refinement of an initial motion vector around which the candidate space is spanned). Finally, the mapping operation can be reverted in order to obtain a result in the original search space.

IPC 8 full level

H04N 19/597 (2014.01)

CPC (source: EP KR US)

H04N 19/103 (2014.11 - US); **H04N 19/132** (2014.11 - KR); **H04N 19/172** (2014.11 - US); **H04N 19/176** (2014.11 - KR US);
H04N 19/521 (2014.11 - US); **H04N 19/523** (2014.11 - EP KR); **H04N 19/55** (2014.11 - US); **H04N 19/56** (2014.11 - EP KR US);
H04N 19/563 (2014.11 - EP KR US); **H04N 19/57** (2014.11 - EP US); **H04N 19/577** (2014.11 - EP US); **H04N 19/80** (2014.11 - KR US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020001578 A1 20200102; AU 2019296308 A1 20210121; AU 2019296308 B2 20230406; AU 2019296308 B9 20230803;
BR 112020026830 A2 20210406; CA 3104570 A1 20200102; CA 3104570 C 20230523; CN 111886870 A 20201103;
CN 111886870 B 20230203; CN 112292862 A 20210129; EP 3794827 A1 20210324; EP 3794827 A4 20210331; EP 3799693 A1 20210407;
EP 3799693 A4 20210407; JP 2021529471 A 20211028; JP 2023014095 A 20230126; JP 7171770 B2 20221115; KR 102606778 B1 20231129;
KR 20210019097 A 20210219; KR 20230165870 A 20231205; SG 11202012700U A 20210128; US 11363292 B2 20220614;
US 11451824 B2 20220920; US 2020404323 A1 20201224; US 2021195232 A1 20210624; US 2022394291 A1 20221208;
WO 2020001574 A1 20200102

DOCDB simple family (application)

CN 2019093499 W 20190628; AU 2019296308 A 20190628; BR 112020026830 A 20190628; CA 3104570 A 20190628;
CN 2019093465 W 20190628; CN 201980020898 A 20190628; CN 201980038772 A 20190628; EP 19825737 A 20190628;
EP 19826142 A 20190628; JP 2020572766 A 20190628; JP 2022176532 A 20221102; KR 20217001104 A 20190628;
KR 20237040298 A 20190628; SG 11202012700U A 20190628; US 202016999031 A 20200820; US 202017135624 A 20201228;
US 202217832353 A 20220603